

Amendment to the Claims:

Donofante
R. Hutson

Claim 1 (currently amended): A *Flavobacterium heparinum* host cell transformed with a ^{12/29/03} recombinant DNA ~~construction~~ expression vector effective to cause expression of a at least one protein encoded by a homologous or heterologous coding sequence selected from the group consisting of heparinase I, heparinase II, heparinase III, and selective markers, placed under the control of regulatory regions effective in *Flavobacterium heparinum*.

Claims 2-4 (canceled)

Claim 5 (original): The host cell of claim 1 wherein said recombinant DNA is integrated into the *Flavobacterium heparinum* chromosome.

Claim 6 (original): The host cell of claim 5 wherein said recombinant DNA is integrated through homologous recombination.

Claim 7 (previously presented): The host cell of claim 6 wherein said integrated DNA comprises a gene which is expressed at high levels.

Claim 8 (original): The host cell of claim 5 wherein said recombinant DNA is integrated through any of bacteriophage integration, transposition of a transposon and transposition of an insertion sequence element.

Claim 9 (original): The host cell of claim 1 further comprising a selective marker for selection of host cells expressing a desired recombinant DNA.

Claim 10 (original): The host cell of claim 9 wherein said selective marker comprises one or more of a gene encoding antibiotic resistance, heavy metal resistance, a physiological growth inhibitory factor, and an amino acid requirement factor.